



ANKIT KUMAR SINGH

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 github.com/BinaryMonkAnkit/

SUMMARY

Highly skilled and adaptable Machine Learning Engineer with expertise in supervised and unsupervised learning, deep learning (ANN, CNN, RNN), and data science techniques like feature engineering and selection. Strong foundation in linear algebra, probability, statistics, and calculus. Proficient in Python, C++, and JavaScript, with hands-on experience in MLOps-based deployment using Docker, Kubernetes, CI/CD pipelines, and cloud services (Amazon SageMaker, EC2, Lambda, S3). Skilled in PostgreSQL, MongoDB, and web development with Django and React. Eager to apply technical expertise and problem-solving skills in an innovation-driven environment.

EDUCATION

Faculty of Engineering and Technology, DMIHER

Nov 2021 – April 2025

B.Tech (AI & ML) - **6.5 CGPA**

Wardha, Maharashtra

S.H.S CUM INTER COLLEGE

March 2019 – Feb 2021

H.S.C. - Science Stream - **72%**

Gopalganj, Bihar

EXPERIENCE

Data Analyst

Jul 2023 – Current

Align Infotech Pvt. Ltd.

Nagpur, Maharashtra

- Developed Python/Django backend APIs to process social media data for sentiment analysis by leveraging NLP libraries (NLTK, spaCy) and integrating SQL/NoSQL databases (MySQL, MongoDB).
- Designed data pipelines using Pandas and NumPy to transform raw social media data into actionable insights, collaborating with cross-functional teams to optimize backend performance.
- Delivered key findings and actionable recommendations for brand strategies through effective data visualization with Matplotlib and Seaborn.

SKILLS


- **Programming Languages:** Python, C++, JavaScript, SQL, NoSQL
- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs), Model Evaluation
- **Frameworks & Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV
- **Mathematics:** Linear Algebra, Calculus, Probability, Statistics, Optimization
- **Model Deployment:** MLOps, Django, React.js, CI/CD, Docker, AWS SageMaker, Lambda, EC2
- **Data Handling:** Feature Engineering, Feature Selection, Data Cleaning, Dimensionality Reduction
- **Cloud Services:** Amazon Sagemaker, Amazon EC2, Amazon lambda, Amazon S3
- **Databases:** PostgreSQL, MongoDB, SQL, NoSQL
- **Version Control & Tools:** Git, GitHub, Jupyter, VS Code
- **Soft skills:** Problem Solving, Analytical Thinking, Effective Communication, Team Collaboration
- **Languages:** English, Hindi

PROJECTS

Intelligent table extraction and Conversational insights from documents.  |

Feb 2025

- **Skills Used:** Python, Django, React.js, API fetching, LLMs
- Developed a platform to automatically extract tabular data in csv formats from different types of files(e.g. scanned pdf, images, docx etc).
- Integrated LLM based chatbot for the conversational insights from document.

Virtual Dressing Room: AI Powered Real-time clothing Try-on.  |

May 2024

- **Skills Used:** Django, React, Websocket, Python, JSX, OpenCV
- Utilizes AI and computer vision to instantly adjust and overlay t-shirts on the user's live video feed, ensuring accurate sizing and fit visualization.
- Offers interactive, intuitive fitting for users, allowing them to try on garments virtually and make confident purchase decisions.

Prediction of Yearly Customer Spending  |

Nov 2023

- **Skills Used:** Python, Linear Regression, Scikit-learn
- Built a predictive model using linear regression to forecast annual customer spending based on historical data.
- Leveraged Scikit-learn for model training and evaluation, resulting in high accuracy and reliability in spending predictions.

EXTRACURRICULAR

MIT-WPU Hackathon 

01 March 2024 – 03 March 2024

Team Leader

DMIHER, Wardha

Participated in a 3-day hackathon with doctors and engineers to develop a smart waste segregation bin. Led a team of 5 members, contributing to idea generation, planning, and execution.